Journal of Non-Crystalline Solids 124 (1990) 281–283
North-Holland

Author index

Aizawa, M., Y. Nakagawa, Y. Nosaka, N. Fujii and H. Miyama, Preparation of hollow TiO_2 fibers 124 (1990) 112
Audiere, J.P., see Murawski 124 (1990) 71

Babytch, I.V., see Plyuto 124 (1990) 41
Bärner, K., see Von Dirke 124 (1990) 265
Batabyal, A.K., see Chatterjee 124 (1990) 131
Benziger, J.B., see Maniar 124 (1990) 101
Brazhkin, V.V., Phenomenological model of crystal–amorphous phase change 124 (1990) 34
Burdett, J.K., see Marians 124 (1990) 1

Carroll, M.R., Simultaneous determination of inert gas solubility and diffusivity in glasses at elevated temperatures and pressures 124 (1990) 181
Chan, S.L. and S.R. Elliott, Interstices, diffusion doorways and free volume percolation studies of a dense random packed atomic structure 124 (1990) 22
Chatterjee, P. and A.K. Batabyal, Metallic glass formation by CH_4^+ ion implantation into Al, Fe and Ni thin films 124 (1990) 131
Chuyko, A.A., see Plyuto 124 (1990) 41

Damodaran, K.V., V.S. Nagarajan and K.J. Rao, A molecular dynamics study of ZrO_2–SiO_2 system 124 (1990) 233
Dézsi, I., see Jiang 124 (1990) 139
Dong, Y.D., see Wang 124 (1990) 82
Dunn, S.A., see Wallenberger 124 (1990) 116

Elliott, S.R., see Chan 124 (1990) 22

Farnan, I. and J.F. Stebbins, Observation of slow atomic motions close to the glass transition using 2-D ^{29}Si NMR 124 (1990) 207
Fleming, J.W., Fluoride glass optical fibres 124 (1990) 278
Fujii, N., see Aizawa 124 (1990) 112

Galyamov, B.Sh., see Yanovskaya 124 (1990) 155
Gonser, U., see Jiang 124 (1990) 139
Greenblatt, M., see Szu 124 (1990) 91
Grötzschel, R., see Kluge 124 (1990) 186

Hanada, T., K. Okutani and N. Soga, Behavior of atomic and molecular sputtered particles during rf sputtering in Ar–O_2 atmospheres 124 (1990) 258
Hartman, J.S., see Merzbacher 124 (1990) 194
He, Y.Z., see Wang 124 (1990) 82
Hobbs, L.W., see Marians 124 (1990) 242
Howitt, D.G., see McElfresh 124 (1990) 174

Ichimura, C., see Kawamoto 124 (1990) 271

James, P.F., see Zanotto 124 (1990) 86
Jaśkiewicz, P., see Pękała 124 (1990) 76
Jiang, J., I. Dézsi, U. Gonser and X. Lin, A study of the preparation conditions of Fe–B amorphous alloy powders produced by chemical reduction 124 (1990) 139
Jiménez-Garay, R., see Ligero 124 (1990) 63

Kamiya, K., see Nasu 124 (1990) 275
Kanno, R., see Kawamoto 124 (1990) 271
Kawaguchi, T., see Masui 124 (1990) 121
Kawamoto, Y., R. Kanno and C. Ichimura, Ionic conduction in $x\mathrm{MF}\cdot(95-x)\mathrm{ZrF_4}\cdot 5\mathrm{LaF_3}$ (M: alkali metals) glasses. II. Ionic conduction in $x\mathrm{MF}\cdot(95-x)\mathrm{ZrF_4}\cdot 5\mathrm{LaF_3}$ (M: Li, Na, K, Rb or Cs) glasses 124 (1990) 271
Kessler, V.G., see Yanovskaya 124 (1990) 155
Klabes, R., see Kluge 124 (1990) 186
Klein, L.C., see Szu 124 (1990) 91
Kluge, G., A. Thomas, R. Klabes, R. Grötzschel and P. Süptitz, Silver photodiffusion in amorphous Ge_xSe_{100-x} 124 (1990) 186
Kobayashi, H., see Nasu 124 (1990) 275
Kobayashi, K., Thermogravimetric and MOS capacitor properties for PbO–Bi_2O_3–B_2O_3–SiO_2 glass system 124 (1990) 229
Kubodera, K., see Nasu 124 (1990) 275
Kucheiko, S.I., see Yanovskaya 124 (1990) 155

Lakshman, S.V.J., see Sreedhar 124 (1990) 216
Lakshmana Rao, J., see Sreedhar 124 (1990) 216
Latuszkiewicz, J., see Pękała 124 (1990) 76
Lazukin, V.N., see Zhilinskaya 124 (1990) 48
Ligero, R.A., J. Vázquez, P. Villares and R. Jiménez-Garay, Resolving overlapping peaks in differential scanning calorimetry 124 (1990) 63
Lin, X., see Jiang 124 (1990) 139
Livage, J., see Murawski 124 (1990) 71

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Maniar, P.D., A. Navrotsky, E.M. Rabinovich, J.Y. Ying and J.B. Benziger, Energetics and structure of sol–gel silicas 124 (1990) 101
Marians, C.S. and J.K. Burdett, Geometric constraints: a refined model for the structure of silica glass 124 (1990) 1
Marians, C.S. and L.W. Hobbs, Network properties of crystalline polymorphs of silica 124 (1990) 242
Maruno, S., see Masui 124 (1990) 121
Masui, K., H. Nakamoto, S. Maruno, T. Kawaguchi and S. Sakakibara, Formation of amorphous Al–Cr and Al–Mn alloy films by rf sputtering 124 (1990) 121
Matsushita, O., see Nasu 124 (1990) 275
McElfresh, D.K. and D.G. Howitt, A structure based model for diffusion in glass and the determination of diffusion constants in silica 124 (1990) 174
Merzbacher, C.I., B.L. Sherriff, J.S. Hartman and W.B. White, A high-resolution ^{29}Si and ^{27}Al NMR study of alkaline earth aluminosilicate glasses 124 (1990) 194
Minami, T., see Tatsumisago 124 (1990) 167
Miyama, H., see Aizawa 124 (1990) 112
Müller, S., see Von Dirke 124 (1990) 265
Murawski, L., C. Sanchez, J. Livage and J.P. Audiere, Small polaron transport in amorphous V_2O_5 films 124 (1990) 71

Nagarajan, V.S., see Damodaran 124 (1990) 233
Nakagawa, Y., see Aizawa 124 (1990) 112
Nakamoto, H., see Masui 124 (1990) 121
Nasu, H., O. Matsushita, K. Kamiya, H. Kobayashi and K. Kubodera, Third harmonic generation from Li_2O–TiO_2–TeO_2 glasses 124 (1990) 275
Navrotsky, A., see Maniar 124 (1990) 101
Nosaka, Y., see Aizawa 124 (1990) 112

Oblasov, A.K., see Zhilinskaya 124 (1990) 48
Obvintseva, I.E., see Yanovskaya 124 (1990) 155
Okutani, K., see Hanada 124 (1990) 258

Pantano, C.G., see Walck 124 (1990) 145
Pękała, K., P. Jaśkiewicz, M. Pękała and J. Latuszkiewicz, Magnetic and electron transport study of amorphous metallic alloys Fe–Ni–B–Si 124 (1990) 76
Pękała, M., see Pękała 124 (1990) 76
Plyuto, Yu.V., J. Stoch, I.V. Babytch and A.A. Chuyko, A structure and chemical state of WO_3-overlayer deposited on aerosil 124 (1990) 41

Rabinovich, E.M., see Maniar 124 (1990) 101
Rager, H., see Von Dirke 124 (1990) 265
Rao, K.J., see Damodaran 124 (1990) 233
Sakakibara, S., see Masui 124 (1990) 121
Sanchez, C., see Murawski 124 (1990) 71
Saraswati, V., Additive induced crystallization of mica phase in K_2O–SiO_2–MgO–F glass ceramic 124 (1990) 254
Sherriff, B.L., see Merzbacher 124 (1990) 194
Shifrina, R.R., see Yanovskaya 124 (1990) 155
Singh, B., see Tarsikka 124 (1990) 221
Soga, N., see Hanada 124 (1990) 258
Sreedhar, B., J. Lakshmana Rao and S.V.J. Lakshman, Electron spin resonance and optical absorption spectra of Cu^{2+} ions in alkali zinc borosulphate glasses 124 (1990) 216
Stebbins, J.F., see Farnan 124 (1990) 207
Stoch, J., see Plyuto 124 (1990) 41
Süptitz, P., see Kluge 124 (1990) 186
Szu, S.-P., M. Greenblatt and L.C. Klein, X-ray diffraction and ^{29}Si NMR study of polymerized and infiltrated lithium silicate gels 124 (1990) 91

Tarsikka, P.S. and B. Singh, DC and ac conductivity of sodium–molybdenum phosphate glasses 124 (1990) 221
Tatsumisago, M., S. Tsuboi, N. Tohge and T. Minami, Formation of high-T_c superconductors from rapidly quenched Bi–Pb–Ca–Sr–Cu–O glasses 124 (1990) 167
Thomas, A., see Kluge 124 (1990) 186
Tohge, N., see Tatsumisago 124 (1990) 167
Tsuboi, S., see Tatsumisago 124 (1990) 167
Turova, N.Ya., see Yanovskaya 124 (1990) 155

Valeev, N.Kh., see Zhilinskaya 124 (1990) 48
Vázquez, J., see Ligero 124 (1990) 63
Villares, P., see Ligero 124 (1990) 63
Von Dirke, M., S. Müller, K. Bärner and H. Rager, Cluster formation of WO_3 in $Li_2B_4O_7$ glasses 124 (1990) 265

Walck, J.C. and C.G. Pantano, Sol–gel processing and crystallization of yttrium aluminosilicates 124 (1990) 145
Wallenberger, F.T., N.E. Weston and S.A. Dunn, Melt spun calcium aluminate fibers: infrared transmission 124 (1990) 116
Wang, G.M., see Wang 124 (1990) 82
Wang, W.H., K.Q. Xiao, Y.D. Dong, Y.Z. He and G.M. Wang, A study on mechanically alloyed amorphous $Al_{80}Fe_{20}$ powder by X-ray diffraction and Mössbauer spectroscopy 124 (1990) 82
Weston, N.E., see Wallenberger 124 (1990) 116
White, W.B., see Merzbacher 124 (1990) 194

Xiao, K.Q., see Wang 124 (1990) 82

Yanovskaya, M.I., I.E. Obvintseva, V.G. Kessler, B.Sh. Galyamov, S.I. Kucheiko, R.R. Shifrina and N.Ya. Turova, Hydrolysis of molybdenum and tungsten alkoxides: sols, powders and films 124 (1990) 155
Ying, J.Y., see Maniar 124 (1990) 101
Zanotto, E.D. and P.F. James, A theoretical and experimental assessment of systematic errors in nucleation experiments 124 (1990) 86
Zhilinskaya, E.A., V.N. Lazukin, N.Kh. Valeev and A.K. Oblasov, Ge_xS_{1-x} glasses. Defects, density and structure 124 (1990) 48

Journal of Non-Crystalline Solids 124 (1990) 284–286
North-Holland

Subject index

Alloys
Metallic Glasses, Glasses Containing Transition Metal Ions, Mössbauer Effect 124 (1990) 82

Borates
Electron Spin Resonance, Glasses Containing Transition Metal Ions 124 (1990) 216

Chalcogenides
Electron Spin Resonance, X-ray Diffraction, Density 124 (1990) 48

Computer Simulation
Structure, Microstructure 124 (1990) 22

Crystallization
Differential Thermal Analysis, Thermal Properties 124 (1990) 63
Experimental Techniques 124 (1990) 86
Nucleation 124 (1990) 254
Sol–Gel Method, Nuclear Magnetic Resonance, X-ray Diffraction 124 (1990) 91
Sol–Gel Method, Silicates, Differential Thermal Analysis 124 (1990) 145
Superconductors, Oxides, Glass Transition 124 (1990) 167

Defects
Glass Formation, Structure, Glass Transition 124 (1990) 34

Density
Electron Spin Resonance, X-ray Diffraction, Chalcogenides 124 (1990) 48

Differential Thermal Analysis
Crystallization, Thermal Properties 124 (1990) 63
Metallic Glasses, X-ray Diffraction, Structure 124 (1990) 121
Sol–Gel Method, Silicates, Crystallization 124 (1990) 145
Viscosity, Electrical Properties and Relaxation 124 (1990) 229

Diffusion
Rutherford Backscattering, Photoinduced Effects 124 (1990) 186
Silica 124 (1990) 181
Theory, Silica 124 (1990) 174

Electrical Properties and Relaxation
Differential Thermal Analysis, Viscosity 124 (1990) 229

Electron Microscopy
Metallic Glasses, Ion Implantation, Glasses Containing Transition Metal Ions 124 (1990) 131

Electron Spin Resonance
Glasses Containing Transition Metal Ions, Borates 124 (1990) 216
Oxides, Optical Properties, Glasses Containing Transition Metal Ions 124 (1990) 265
X-ray Diffraction, Density, Chalcogenides 124 (1990) 48

Electronic Conductivity
Phosphates 124 (1990) 221
Phosphates, Glasses Containing Transition Metal Ions 124 (1990) 71

Experimental Techniques
Crystallization 124 (1990) 86

Fibers
Oxides, Infra-red Absorption, Strength 124 (1990) 116

Fluorides
Halide Glasses 124 (1990) 278
Ionic Conductivity, Halide Glasses 124 (1990) 271

Germania
Sputtering 124 (1990) 258

Glass Fibers
Sol–Gel Method, Oxides 124 (1990) 112

Glass Formation
Structure, Glass Transition, Defects 124 (1990) 34

Glass Transition
Glass Formation, Structure, Defects 124 (1990) 34
Nuclear Magnetic Resonance, Silicates 124 (1990) 207
Superconductors, Oxides, Crystallization 124 (1990) 167

Glasses Containing Transition Metal Ions
Alloys, Metallic Glasses, Mössbauer Effect 124 (1990) 82
Electron Spin Resonance, Borates 124 (1990) 216
Electronic Conductivity, Phosphates 124 (1990) 71
Metallic Glasses, Ion Implantation, Electron Microscopy 124 (1990) 131
Metallic Glasses, Magnetic Properties 124 (1990) 76

0022-3093/90/$03.50 © 1990 – Elsevier Science Publishers B.V. (North-Holland)

Metallic Glasses, Mössbauer Effect, Magnetic Properties 124 (1990) 139
Oxides, Electron Spin Resonance, Optical Properties 124 (1990) 265

Halide Glasses
Fluorides 124 (1990) 278
Ionic Conductivity, Fluorides 124 (1990) 271

Infra-red Absorption
Fibers, Oxides, Strength 124 (1990) 116

Ion Implantation
Metallic Glasses, Glasses Containing Transition Metal Ions, Electron Microscopy 124 (1990) 131

Ionic Conductivity
Fluorides, Halide Glasses 124 (1990) 271

Magnetic Properties
Metallic Glasses, Glasses Containing Transition Metal Ions 124 (1990) 76
Metallic Glasses, Mössbauer Effect, Glasses Containing Transition Metal Ions 124 (1990) 139

Metallic Glasses
Alloys, Glasses Containing Transition Metal Ions, Mössbauer Effect 124 (1990) 82
Ion Implantation, Glasses Containing Transition Metal Ions, Electron Microscopy 124 (1990) 131
Magnetic Properties, Glasses Containing Transition Metal Ions 124 (1990) 76
Mössbauer Effect, Glasses Containing Transition Metal Ions, Magnetic Properties 124 (1990) 139
X-ray Diffraction, Differential Thermal Analysis, Structure 124 (1990) 121

Microstructure
Structure, Computer Simulation 124 (1990) 22
Structure, Topology, Silica 124 (1990) 1

Molecular Dynamics
Oxides, Structure, Zirconia 124 (1990) 233

Mössbauer Effect
Alloys, Metallic Glasses, Glasses Containing Transition Metal Ions 124 (1990) 82
Metallic Glasses, Glasses Containing Transition Metal Ions, Magnetic Properties 124 (1990) 139

Non-linear Optics
Non-linear Optics 124 (1990) 275

Nuclear Magnetic Resonance
Glass Transition, Silicates 124 (1990) 207
Silicates, Structure 124 (1990) 194
Sol–Gel Method, X-ray Diffraction, Crystallization 124 (1990) 91

Nucleation
Crystallization 124 (1990) 254

Optical Properties
Oxides, Electron Spin Resonance, Glasses Containing Transition Metal Ions 124 (1990) 265
Sol–Gel Processes, Structure 124 (1990) 155

Oxides
Electron Spin Resonance, Optical Properties, Glasses Containing Transition Metal Ions 124 (1990) 265
Fibers, Infra-red Absorption, Strength 124 (1990) 116
Molecular Dynamics, Structure, Zirconia 124 (1990) 233
Sol–Gel Method, Glass Fibers 124 (1990) 112
Superconductors, Crystallization, Glass Transition 124 (1990) 167

Phosphates
Electronic Conductivity 124 (1990) 221
Electronic Conductivity, Glasses Containing Transition Metal Ions 124 (1990) 71

Photoinduced Effects
Rutherford Backscattering, Diffusion 124 (1990) 186

Rutherford Backscattering
Diffusion, Photoinduced Effects 124 (1990) 186

Short-Range Order
Topology, Silica, Structure 124 (1990) 242

Silica
Diffusion 124 (1990) 181
Diffusion, Theory 124 (1990) 174
Structure, Microstructure, Topology 124 (1990) 1
Thermodynamics, Sol–Gel Method 124 (1990) 101
Topology, Short-Range Order, Structure 124 (1990) 242

Silicates
Nuclear Magnetic Resonance, Glass Transition 124 (1990) 207
Nuclear Magnetic Resonance, Structure 124 (1990) 194
Sol–Gel Method, Differential Thermal Analysis, Crystallization 124 (1990) 145

Sol–Gel Method
Nuclear Magnetic Resonance, X-ray Diffraction, Crystallization 124 (1990) 91
Oxides, Glass Fibers 124 (1990) 112
Silicates, Differential Thermal Analysis, Crystallization 124 (1990) 145
Thermodynamics, Silica 124 (1990) 101

Sol–Gel Processes
Structure, Optical Properties 124 (1990) 155

Sputtering
Germania 124 (1990) 258

Strength
Fibers, Oxides, Infra-red Absorption 124 (1990) 116

Structure
Computer Simulation, Microstructure 124 (1990) 22
Glass Formation, Glass Transition, Defects 124 (1990) 34
Metallic Glasses, X-ray Diffraction, Differential Thermal Analysis 124 (1990) 121
Microstructure, Topology, Silica 124 (1990) 1
Molecular Dynamics, Oxides, Zirconia 124 (1990) 233
Nuclear Magnetic Resonance, Silicates 124 (1990) 194
Sol–Gel Processes, Optical Properties 124 (1990) 155
Topology, Silica, Short-Range Order 124 (1990) 242
Tungstates, Surface Properties, XPS 124 (1990) 41

Superconductors
Oxides, Crystallization, Glass Transition 124 (1990) 167

Surface Properties
Tungstates, XPS, Structure 124 (1990) 41

Theory
Diffusion, Silica 124 (1990) 174

Thermal Properties
Differential Thermal Analysis, Crystallization 124 (1990) 63

Thermodynamics
Sol–Gel Method, Silica 124 (1990) 101

Topology
Silica, Short-Range Order, Structure 124 (1990) 242
Structure, Microstructure, Silica 124 (1990) 1

Tungstates
Surface Properties, XPS, Structure 124 (1990) 41

Viscosity
Differential Thermal Analysis, Electrical Properties and Relaxation 124 (1990) 229

X-ray Diffraction
Electron Spin Resonance, Density, Chalcogenides 124 (1990) 48
Metallic Glasses, Differential Thermal Analysis, Structure 124 (1990) 121
Sol–Gel Method, Nuclear Magnetic Resonance, Crystallization 124 (1990) 91

XPS
Tungstates, Surface Properties, Structure 124 (1990) 41

Zirconia
Molecular Dynamics, Oxides, Structure 124 (1990) 233